

**The Knowledge Bank at The Ohio State University**  
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## CAMPUS NOTES

### E. E. DEPARTMENT GIVES DEMONSTRATION

On several occasions during the past year the Student Branch of the A. I. E. E. has been a guest of the down-town branch of the same organization, the two organizations holding joint meetings. On May 1 the Student Branch played the part of host to the down-town section.

A total of over a hundred students and engineers attended the banquet held at Pomerene Hall. Professor Dreese, head of the Electrical Engineering Department, spoke a few words of welcome to the visiting members and introduced Professor McClure of Ohio University. Several E. E. students from Ohio U were also present.

After the banquet the party adjourned to the Electrical and Communication labs. The new equipment of the laboratories was demonstrated and explained by the students of the department. One of the most interesting demonstrations was one which showed the different vibrations in a piece of revolving machinery. A special type of neon lamp was placed in a reflector so that the light was focused on the electric motor and its mounting. This lamp gave out instantaneous flashes of light at a very high rate. The rate of these flashes was adjusted so that the vibrations could be seen in much the same way as a slow motion picture might look. By adjusting the flash frequency to correspond with the vibration period of the different portions of the mechanism, the different vibrations could be seen very plainly. The words "Ohio State" were written on a small disc which was placed on the shaft of the motor and revolved at a very high speed. By adjusting the flash frequency of the stroboscopic lamp, the letters were made plainly visible.

Several types of oscillographs were also demonstrated, among them a cathode ray oscillograph by means of which electric discharges are studied. Different types of new power equipment were demonstrated along with several types of voltage regulator tubes. On the sidewalk just outside of the Electrical lab there was located a large incandescent lamp of two kilowatts power. At a distance of ten feet from this lamp the heat of radiation could be plainly felt. About ten of such lamps are usually used in filming a motion picture.

In the communications lab the equipment was even more interesting than in the electrical lab. A new type of radio altimeter was demonstrated. A demonstration of electrical recording was given. Records were made and then reproduced and amplified through an amplifier and a large horn. Various type of oscillators were put in operation and their characteristics explained. Perhaps the most interesting thing was an ultra short-wave radio transmitter. This transmitter was made to oscillate on less than a half meter wave-length. Compare this to the minimum wave-length of your broadcast receiver.

The exchange of ideas and viewpoints between the student and the engineer, such as are possible in meetings like this, should be valuable to both.

### ARCHITECTS TO COMPETE FOR FELLOWSHIPS

Two students from the department of architecture, Gilbert Coddington and L. Morgan Yost, have been selected to compete for the traveling fellowships of The Foundation for Architecture and Landscape Architecture at Lake Forest.

This Foundation now exists for the purpose of offering students of unusual promise in the fields of architecture and landscape architecture opportunities for intensive and special study of their respective arts.

The students admitted to the courses of the Foundation must be graduates of recognized schools. The Board of Trustees of the Foundation each year selects no more than two male students from a list of names submitted by the faculty of a school. The students selected from the various schools attend the courses at Lake Forest during the three months after graduation.

At the end of the summer, awards for Traveling European Fellowships are made by a jury selected by the American Institute of Architects and American Society of Landscape Architects.

The work made by students during the summer and all other evidence of the candidates' fitness to study abroad are submitted to the jury. One architect and one landscape architect are selected and to these men the Edward L. Ryerson Fellowship in Architecture and the Edward L. Ryerson Fellowship in Landscape Architecture are awarded. Also one architect and one landscape architect are selected for honorable mention.

The fellowships for traveling abroad consists of \$1,250 for each man. The two men travel together as much as possible. The countries visited are Great Britain, France, Italy, and any others which may seem desirable.

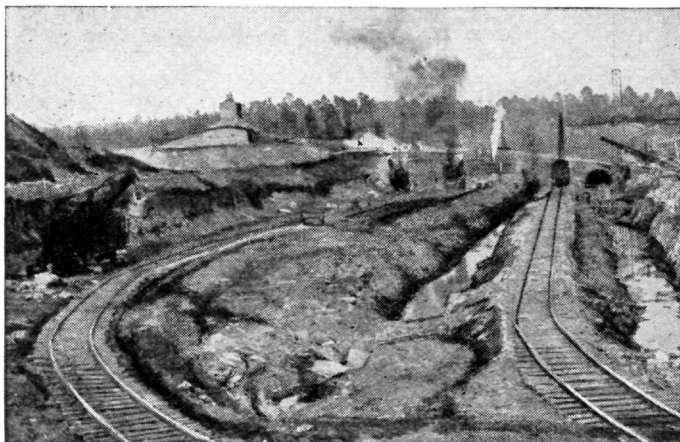
In the past years Ohio State University graduates have been consistent winners of these fellowships. In 1926 both fellowships and one honorable mention went to Ohio State University; in 1927, both fellowships and one honorable mention; in 1928, one fellowship; in 1930, a fellowship was won by Clifford McCoy. In 1931 we hope our school's past reputation will be upheld.

### MECHANICAL ENGINEERING INSPECTION TRIPS

The Junior Mechanical inspection trip which took place during the week of May 3rd, included only two cities, namely Cleveland and Detroit. However, this does not mean that the boys were not kept busy all week for they visited three and four plants every day. Of course, a couple of the fellows had to get lost for a short time but taken as a whole the trip was quite successful. The men in charge were Professors K. W. Stinson and R. R. Beidler.

The Senior Mechanical inspection trip included in its itinerary Akron, Barberton, Cleveland, Niagara Falls, and Pittsburgh. There were only eighteen men who made this trip, including their directors Professors Paul Bucher and George Moffat.

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During the early stages of the excavation for the penstocks

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# EXPLOSIVES

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## RADIO CLUB ELECTS OFFICERS

On May 13, the members assembled at a special meeting for the purpose of electing officers for the coming year. G. E. Branch, E.E. 2, was chosen president, Fred H. Trimmer, E.E. 2, vice-president, and Paul Braden, E.E. 1, secretary-treasurer. A new plan of financing the activities of the club was discussed and carried over till the next meeting. Tentative plans were made to construct two new transmitting sets for the use of the members.

Since the installation of new speech amplifiers at WEAO, the transmissions of the Radio Club's short wave transmitter no longer interferes with the broadcasting station. This passing condition has been a constant source of annoyance to both parties and the new installation is a great improvement in conditions.

## MERRIL VISITS CAMPUS

State Highway Director O. W. Merrill, C.E., 1922, was on the Campus Tuesday in conference with Mr. Steeb, secretary of the Board of Trustees, Mr. Liteheiser, Chief Engineer of the Bureau of Tests of the Highway Department, and Dean Hitchcock, relating to additional space greatly needed by the highway lab in the Experiment Station Building.

Since the Experiment Station itself is also in need of additional space due to the very rapid growth of its activities, it is hoped that this conference will result in an addition to the Experiment Station for the purpose of taking care of the Highway Department labs.

## METALLURGY

Professor Lord has taken fifteen juniors in the Metallurgical Department on a one-week inspection trip through the various metallurgy plants located in Ashland, Kentucky; Huntington and Wheeling, West Virginia; Youngstown, Akron, and Cleveland, Ohio; and Pittsburgh, Pennsylvania.

## STAFF HEARS LECTURES

Gabriel Krom, of the United Research Corporation, a subsidiary of Warner Bros., motion picture producers, recently gave a series of three lectures to the staff and the graduate students of the department of Electrical Engineering. He spoke on his theory of revolving permeances and his generalized theory of electrical machinery and electrical networks.

New books obtained by the Chemistry Library during the past month are as follows:

*Electro-Chemie der Kolloide*—Pauli-Valko.

*A Textbook of Inorganic Pharmaceutical Chemistry*—Charles H. Rogers.

*Recent Advances in Physical and Inorganic Chemistry*—Alfred W. Stewart.

*A Treatise on Physical Chemistry*, 2d. ed., V. 2, Copy 3.—Hugh S. Taylor, ed.

New books obtained by the Electrical Library during the past month are as follows:

*Electromagnetic Theory*—Mason and Weaver.

A new periodical just listed in the Electrical Library is *Transactions of the Illuminating Engineering Society*.

## OBITUARY

Mrs. W. A. Knight, wife of Professor Knight of the department of Industrial Engineering, recently passed away at her home in Columbus.